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CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2015 Certified Company
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JAS-ANZ
ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/CSR/W.No.16/2019-20

Date: 26.07.2019

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.
AGENCY	:	**Sri. T. Chandra Shekar Reddy,** Contractor, Bangalore.
NAME OF THE WORK	:	Improvements of Roads and Footpath in Jalahalli Ward No.16, BBMP, Bangalore.
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part -5)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	410Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.00 %	-

Note:

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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Job No.: CQCE/BBMP/CSR/W.No.16/2019-20

Date : 26.07.2019

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.
Agency : **Sri. T. Chandra Shekar Reddy,** Contractor, Bangalore.
Name of Work : Improvements of Roads and Footpath in Jalahalli Ward No.16, BBMP, Bangalore.

Date of Testing : 26.07.2019

Material : Sand

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	52	5.20	5.20	94.8	90-100
2.36	186	18.60	23.80	76.2	75-100
1.18	135	13.50	37.30	62.7	55-90
600 Micron	195	19.50	56.80	43.2	35-59
300 Micron	185	18.50	75.30	24.7	8-30
150 Micron	162	16.20	91.50	8.5	0-10

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Job No.: CQCE/BBMP/CSR/W.No.16/2019-20

Date : 26.07.2019

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.
Agency : **Sri. T. Chandra Shekar Reddy,** Contractor, Bangalore.
Name of Work : Improvements of Roads and Footpath in Jalahalli Ward No.16, BBMP, Bangalore.
Date of Testing : 26.07.2019
Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	132	0.88	0.88	99.12	95-100
20	8654	57.69	58.57	41.43	30-70
10	2654	17.69	76.27	23.73	10-35
4.75	3105	20.70	96.97	3.03	0-5

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Job No.: CQCE/BBMP/CSR/W.No.16/2019-20

Date : 26.07.2019

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.
Agency : **Sri. T. Chandra Shekar Reddy,** Contractor, Bangalore.
Name of Work : Improvements of Roads and Footpath in Jalahalli Ward No.16, BBMP, Bangalore.
Date of Testing : 26.07.2019
Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	172	3.4	3.4	96.6	95-100
10	2625	52.5	55.9	44.1	25-55
4.75	1852	37.0	93.0	7.0	0-10

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Job No.: CQCE/BBMP/CSR/W.No.16/2019-20 Date : 29.07.2019

TEST REPORT ON SOLID CONCRETE BLOCKS

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.

Agency : **Sri. T. Chandra Shekar Reddy,** Contractor, Bangalore.

Name of the Work : Improvements of Roads and Footpath in Jalahalli Ward No.16, BBMP, Bangalore.

Date of Testing : 29.07.2019
Size of Blocks : 400mm x 200mm x 200mm
Cross Sectional Are : 80000 mm^2
Technical Referenc : IS: 2185 (Part 1) - 2005
No. of Blocks Tested : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Block Density (Kg/m3)	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	31.8	356.2	4.45	1987.50	Minimum required Compressive Strength of Individual Units 4.00 N/mm^2
2	Block 2	32.3	361.2	4.52	2018.75	
3	Block 3	31.6	345.7	4.32	1975.00	
4	Block 4	31.2	339.5	4.24	1950.00	

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Job No.: CQCE/BBMP/CSR/W.No.16/2019-20

Date: 26.08.2019

TEST REPORT ON CEMENT MORTAR CUBES

Client	: **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.
Contractor	: **Sri. T. Chandra Shekar Reddy,** Contractor, Bangalore.
Name of the work	: Improvements of Roads and Footpath in Jalahalli Ward No.16, BBMP, Bangalore.
Sample ID	: Cement Mortar (53 Grade)
Size of cubes	: 50mmx50mmx50mm
Cross Sectional Area	: 2500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008) & IS: 2250-1981
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.07.2019	26.08.2019	0.771	135.2	54.08
2	29.07.2019	26.08.2019	0.782	136.8	54.72
3	29.07.2019	26.08.2019	0.796	134.7	53.88

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Job No.: CQCE/BBMP/CSR/W.No.16/2019-20

06.08.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.
Agency : **Sri. T. Chandra Shekar Reddy,** Contractor, Bangalore.
Name of the work : Improvements of Roads and Footpath in Jalahalli Ward No.16, BBMP, Bangalore.
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.07.2019	06.08.2019	8.137	353.6	15.72
2	30.07.2019	06.08.2019	8.129	365.2	16.23
3	30.07.2019	06.08.2019	8.156	337.5	15.00

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27.08.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.
Agency : **Sri. T. Chandra Shekar Reddy,** Contractor, Bangalore.
Name of the work : Improvements of Roads and Footpath in Jalahalli Ward No.16, BBMP, Bangalore.
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.07.2019	27.08.2019	8.253	515.6	22.92
2	30.07.2019	27.08.2019	8.238	525.3	23.35
3	30.07.2019	27.08.2019	8.245	504.2	22.41

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Agency : **Sri. T. Chandra Shekar Reddy,** Contractor, Bangalore.
Name of the work : Improvements of Roads and Footpath in Jalahalli Ward No.16, BBMP, Bangalore.
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.07.2019	06.08.2019	8.125	375.3	16.68
2	30.07.2019	06.08.2019	8.151	362.5	16.11
3	30.07.2019	06.08.2019	8.147	358.4	15.93

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Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.07.2019	27.08.2019	8.235	525.3	23.35
2	30.07.2019	27.08.2019	8.215	505.4	22.46
3	30.07.2019	27.08.2019	8.245	515.6	22.92

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